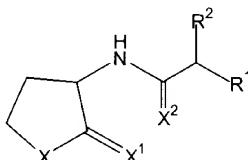


Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) A compound having the structure:



(I)

3 wherein.

R^1 is a member selected from —H, —OH, and (=O);

R^2 is a member selected from reactive functional groups, alkyl groups

terminally substituted with a reactive functional group and internally

substituted alkyl groups terminally substituted with a reactive

functional group wherein said alkyl groups terminally substituted with

a reactive functional group and said internally substituted alkyl groups

terminally substituted with a reactive functional group are substituted

with a reactive functional group which is a member selected from —

$\text{OR}^3 = \text{NHR}^4 = \text{COR}^5 = \text{SH}$ and $= \text{CH}_2\text{X}^3$ wherein,

—OR^3 is a member selected from hydroxy, alkyl sulfonate and

aryl sulfonate groups:

\mathbb{R}^4 is H :

R^5 is a member selected from H_3X^3 and $-OR^6$, wherein

17 R⁶ is a member selected from alkyl, substituted alkyl,
18 aryl, substituted aryl, heteroaryl, substituted heteroaryl,
19 heterocyclyl and substituted heterocyclyl groups; and
20 X³ is a halogen;
21 X is ~~a member selected from —O—, —S— and —NH—~~; and
22 X¹ and X² are members independently selected from O and S.

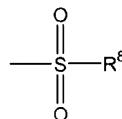
1 2. (Original) The compound according to claim 1, wherein R² is an
2 internally substituted alkyl group terminally substituted with a reactive functional group.

1 3. (Original) The compound according to claim 2, wherein the alkyl
2 group is internally substituted with a functional group that is a member selected from —OH,
3 (=O) and combinations thereof.

1 4. (Canceled)

1 5. (Original) The compound according to claim 1, wherein the compound
2 is a single stereoisomer.

1 6. (Currently Amended) The compound according to claim 4 1, wherein
2 R³ is



(V)

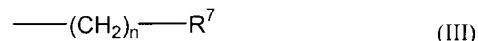
3 wherein,

5 R⁸ is a member selected from alkyl, substituted alkyl, aryl and substituted aryl
6 groups.

1 7. (Original) The compound according to claim 1, wherein the alkyl and
2 the internally substituted alkyl groups are members selected from C₁-C₂₀ saturated straight-
3 chain, C₁-C₂₀ saturated branched-chain, C₁-C₂₀ unsaturated straight-chain, C₁-C₂₀ unsaturated
4 branched-chain alkyl and internally substituted alkyl groups.

1 **8.** (Original) The compound according to claim 7, wherein the alkyl and
2 internally substituted alkyl groups are members selected from C₅-C₁₀ saturated straight-chain,
3 C₅-C₁₀ saturated branched-chain, C₅-C₁₀ unsaturated straight-chain, C₅-C₁₀ unsaturated
4 branched-chain alkyl and internally substituted alkyl groups.

1 **9.** (Original) A compound according to claim 1, wherein R² has the
2 structure:

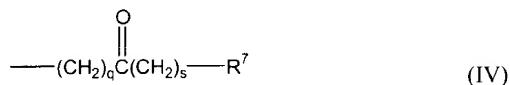


3 wherein,

5 R⁷ a reactive functional group; and
6 n is a number from 1 to 20, inclusive.

1 **10.** (Original) The compound according to claim 9, wherein n is a number
2 from 2 to 9, inclusive.

1 **11.** (Original) A compound according to claim 1, wherein R² has the
2 structure:



3 wherein,

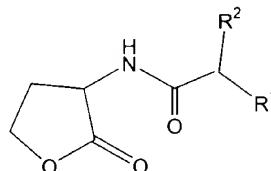
5 R⁷ is a reactive functional group; and
6 q and s are numbers independently selected from 1 to 20, inclusive.

1 **12.** (Original) The compound according to claim 11, wherein s is a number
2 from 2 to 9, inclusive.

1 **13.** (Canceled)

1 **14.** (Canceled)

1 **15.** (Original) A compound having the structure:

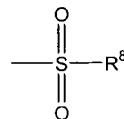


2

3 wherein,

4 R¹ is a member selected from H, OH, and (=O); and5 R² is a member selected from H, reactive functional groups, alkyl groups
6 terminally substituted with a reactive functional group and internally
7 substituted alkyl groups terminally substituted with a reactive functional
8 group, with the proviso that when R² is —OH, R¹ is a member selected
9 from OH, and (=O).1 16. (Original) The compound according to claim 15, wherein the reactive
2 functional group is a member selected from —OR³, —NHR⁴, —COR⁵, SH and CH₂X³

3 wherein,

4 —OR³ is a member selected from hydroxy, and a species such that —OR³ is a
5 leaving group;6 R⁴ is a member selected from H, C₁-C₆ alkyl, C₁-C₆ substituted alkyl, aryl and
7 substituted aryl groups;8 R⁵ is a member selected from H, halogen and —OR⁶, wherein R⁶ is species
9 such that —OR⁶ is a leaving group; and10 X³ is a halogen.1 17. (Original) The compound according to claim 16, wherein R³ is

2

3 wherein,

4 R⁸ is a member selected from alkyl, substituted alkyl, aryl and substituted aryl
5 groups.

1 **18.** (Original) The compound according to claim 16, wherein R⁶ is a
2 member selected from alkyl, substituted alkyl, aryl, substituted aryl, heteroaryl, substituted
3 heteroaryl, heterocyclyl and substituted heterocyclyl groups.

1 **19.** (Original) The compound according to claim 15, wherein the alkyl and
2 the internally substituted alkyl groups are members selected from C₁-C₂₀ saturated straight-
3 chain, C₁-C₂₀ saturated branched-chain, C₁-C₂₀ unsaturated straight-chain, C₁-C₂₀ unsaturated
4 branched-chain alkyl and internally substituted alkyl groups.

1 **20.** (Original) The compound according to claim 19, wherein the alkyl and
2 internally substituted alkyl groups are members selected from C₅-C₁₀ saturated straight-chain,
3 C₅-C₁₀ saturated branched-chain, C₅-C₁₀ unsaturated straight-chain, C₅-C₁₀ unsaturated
4 branched-chain alkyl and internally substituted alkyl groups.

1 **21.** (Original) A compound according to claim 15, wherein R² has the
2 structure:



4 wherein,

5 R⁷ is a reactive functional group; and

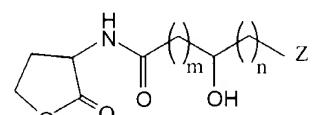
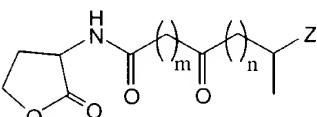
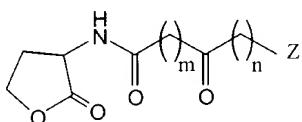
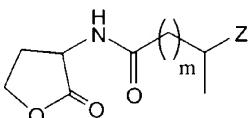
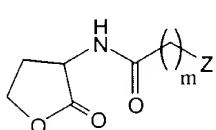
6 n is a number from 1 to 20, inclusive.

1 **22.** (Original) The compound according to claim 21, wherein n is a
2 number from 2 to 9, inclusive.

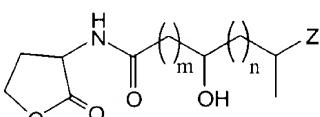
1 **23.** (Original) The compound according to claim 15, wherein R² is a
2 member selected from the group consisting of—COOH, —OH, —NH₂, and —SH.

1 **24.** The compound according to claim 21, wherein R⁷ is a member selected
2 from the group consisting of—COOH, —OH, —NH₂, and —SH.

1 **25.** (Original) A compound having a structure that is a member selected
2 from:



and



3 wherein,

4 m is a number selected from 1 to 20, inclusive;

5 n is a number from 0 to 20, inclusive; and

6 Z is a reactive functional group.

1 **26.** (Original) The compound according to claim 25, wherein m and n are
2 numbers independently selected from 2 to 9, inclusive.

1 **27.** (Original) The compound according to claim 25, wherein Z is a member
2 selected from —NH₂, —COOH, —SH, and —OH.

1 **28. - 108. (Cancelled)**